SEQUENCE LISTING

<110> Adams, Sean

      Yu, Xiang Xian

<120> CONTROL OF METABOLISM WITH COMPOSITIONS OF THE HUMAN 2-OXOGLUTARATE CARRIER

<130> 10466/35

<140> 09/888,264

<141> 2001-06-22

<150> 60/213,307

<151> 2000-06-22

<160> 2

<170> PatentIn version 3.1

<210> 1

<211> 1123

<212> DNA

<213> Homo sapiens; GenBank NM_003562

<400> 1

```
ccgagggcca ttgagtggcg atggcggcga cggcgagtgc cggggccggc gggatggacg      60

ggaagccccg tacctcccct aagtccgtca agttcctgtt tgggggcctg gccgggatgg     120
```

```
gagctacagt ttttgtccag cccctggacc tggtgaagaa ccggatgcag ttgagcgggg    180

aaggggccaa gactcgagag tacaaaacca gcttccatgc cctcaccagt atcctgaagg    240

cagaaggcct gaggggcatt tacactgggc tgtcggctgg cctgctgcgt caggccacct    300

acaccactac ccgccttggc atctataccg tgctgtttga gcgcctgact ggggctgatg    360

gtactccccc tggctttctg ctgaaggctg tgattggcat gaccgcaggt gccactggtg    420

cctttgtggg aacaccagcc gaagtggctc ttatccgcat gactgccgat ggccggcttc    480

cagctgacca gcgccgtggc tacaaaaatg tgtttaacgc cctgattcga atcacccggg    540

aagagggtgt cctcacactg tggcggggct gcatccctac catggctcgg gccgtcgtcg    600

tcaatgctgc ccagctcgcc tcctactccc aatccaagca gttcttactg gactcaggct    660

acttctctga caacatcctg tgccacttct gtgccagcat gatcagcggt cttgtcacca    720

ctgctgcctc catgcctgtg gacattgcca agacccgaat ccagaacatg cggatgattg    780

atgggaagcc ggaatacaag aacgggctgg acgtgctgtt caaagttgtc cgctacgagg    840

gcttcttcag cctgtggaag ggcttcacgc cgtactatgc ccgcctgggc ccccacaccg    900

tcctcacctt catcttcttg gagcagatga caaggcctaa caagcgtctc ttcctcagtg    960

gctgaagcgt ttcagggcac acaggacagc agaagatccc ctttgtcagt ggggaaacca   1020

aggcagagct gaggggacag ggaggagcag aagccatcaa gatggtcaaa gggcctgcag   1080

agggagatgt ggccttcctc cccctcattg aggactcaat aaa                     1123
```

<210> 2

<211> 1503

<212> DNA

<213> Homo sapiens; GenBank AF070548

<400> 2
```
cctcgtgcca ggcgtgcgcg cgccctcgct ctgttgcgcg cgcggtgtca ccttgggcgc     60

gagcggggcc gtgcgcgcac gggacccgga gccgagggcc attgagtggc gatggcggcg    120

acggcgagtg ccggggccgg cgggatagac gggaagcccc gtacctcccc taagtccgtc    180

aagttcctgt ttggggggcct ggccgggatg ggagctacag tttttgtcca gcccctggac    240
```

```
ctggtgaaga accggatgca gttgagcggg gaaggggcca agactcgaga gtacaaaacc    300

agcttccatg ccctcaccag tatcctgaag gcagaaggcc tgaggggcat ttacactggg    360

ctgtcggctg gcctgctgcg tcaggccacc tacaccacta cccgccttgg catctatacc    420

gtgctgtttg agcgcctgac tggggctgat ggtactcccc ctggctttct gctgaaggct    480

gtgattggca tgaccgcagg tgccactggt gcctttgtgg gaacaccagc cgaagtggct    540

cttatccgca tgactgccga tggccggctt ccagctgacc agcgccgtgg ctacaaaaat    600

gtgtttaacg ccctgattcg aatcacccgg gaagagggtg tcctcacact gtggcggggc    660

tgcatcccta ccatggctcg ggccgtcgtc gtcaatgctg cccagctcgc ctcctactcc    720

caatccaagc agttcttact ggactcaggc tacttctctg acaacatctt gtgccacttc    780

tgtgccagca tgatcagcgg tcttgtcacc actgctgcct ccatgcctgt ggacattgcc    840

aagacccgaa tccagaacat gcggatgatt gatgggaagc cggaatacaa gaacgggctg    900

gacgtgctgt tcaaagttgt ccgctacgag ggcttcttca gcctgtggaa gggcttcacg    960

ccgtactatg cccgcctggg cccccacacc gtcctcacct tcatcttctt ggagcagatg   1020

aacaaggcct acaagcgtct cttcctcagt ggctgaagcg gccggggggct cccactcgcc   1080

tgctgcgcct atagccactg cgccctgggg gcctgggctc tgctgccctg gacccctcta   1140

tttatttccc ttccacagtg tggtttcttc ctctgcggta aaggacttgg tctgttctac   1200

cccctgctcc agcttgccct gctcgtcctg atcctgtgat ttctctgtcc ttggctattc   1260

ttgcagggag ctggaaaact tcctgaggat ttctggcctc cccctgggtt ttagtttcag   1320

ggcacacagg acagcagaag atcccctttg tcagtgggga aaccaaggca gagctgaggg   1380

gacagggagg agcagaagcc atcaagatgg tcaaagggcc tgcagaggga gatgtggccc   1440

ttcctccccc tcattgagga cttaataaat tggattgatg acaccaaaaa aaaaaaaaaa   1500

aaa                                                                  1503
```